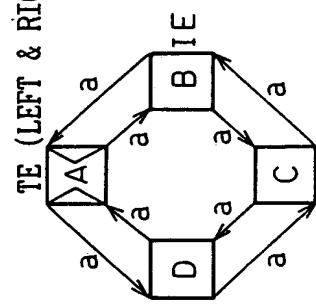
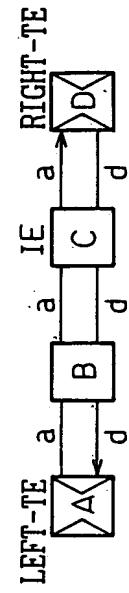


**Fig.1A**  
RING CONNECTION NETWORK

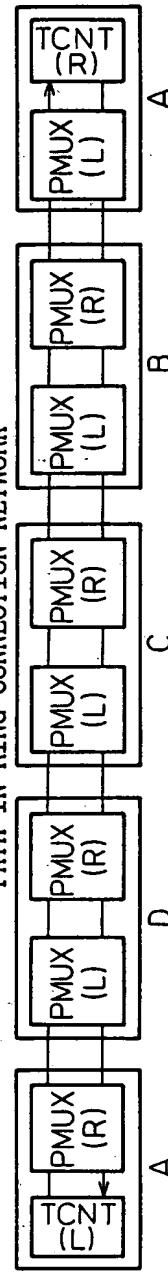


**Fig.1B**  
LINEAR CONNECTION NETWORK



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STRUCTURE OF LOGICAL COMMUNICATION PATH IN RING CONNECTION NETWORK



**Fig.1D**

STRUCTURE OF LOGICAL COMMUNICATION PATH IN LINEAR CONNECTION NETWORK

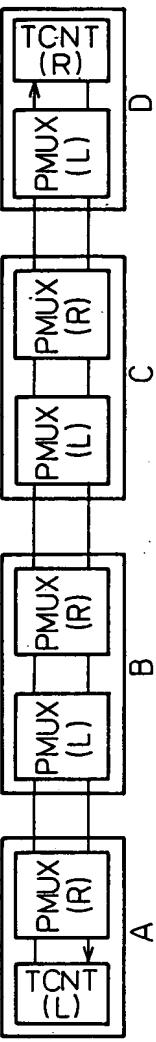


Fig.2A

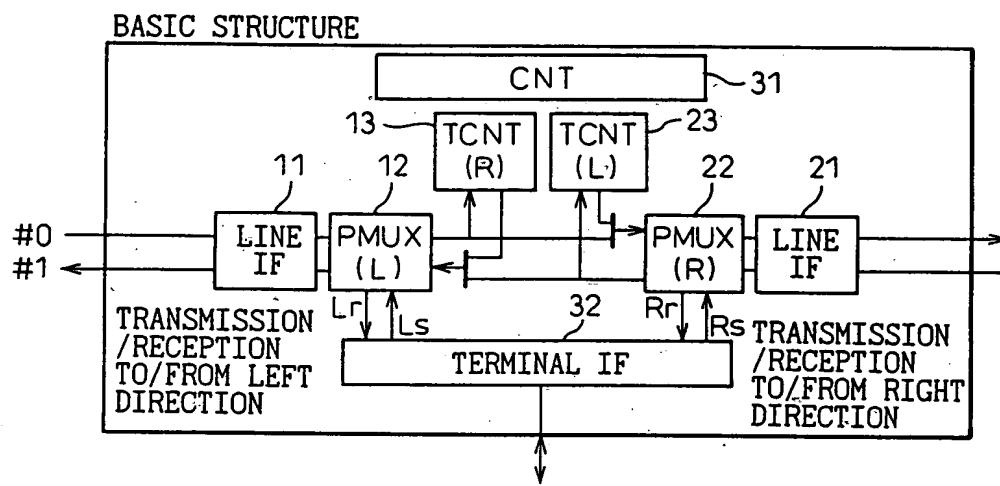
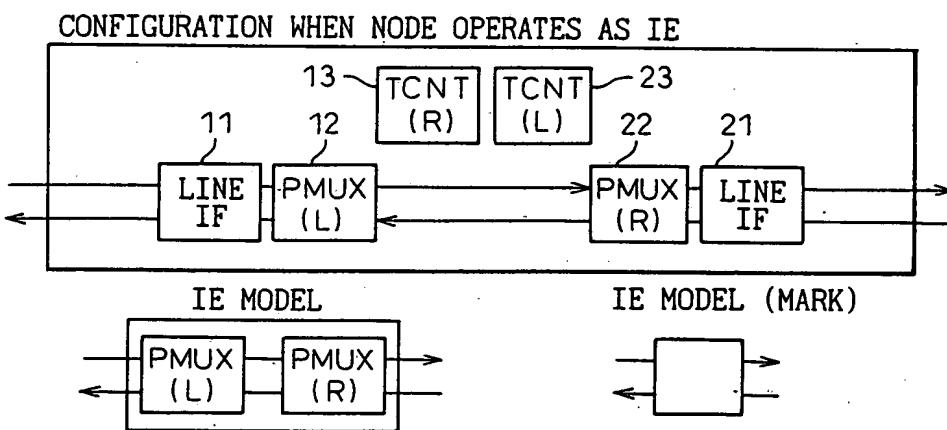
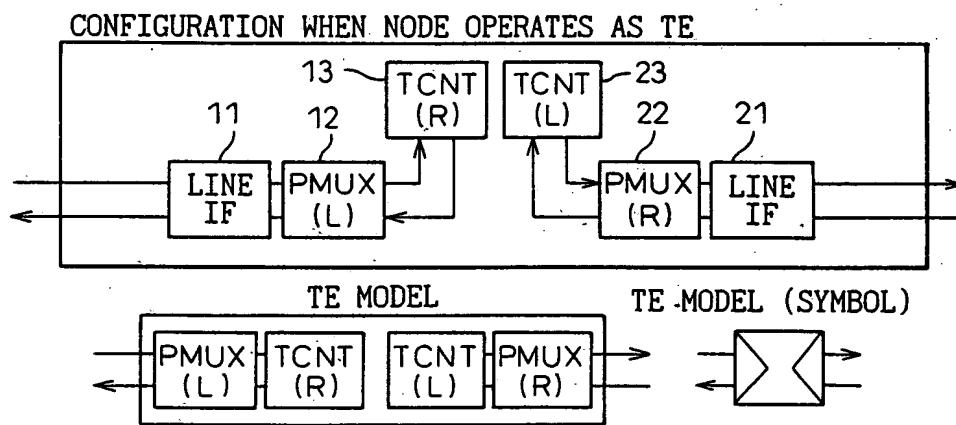


Fig.2B



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Fig.2C



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Fig.3A

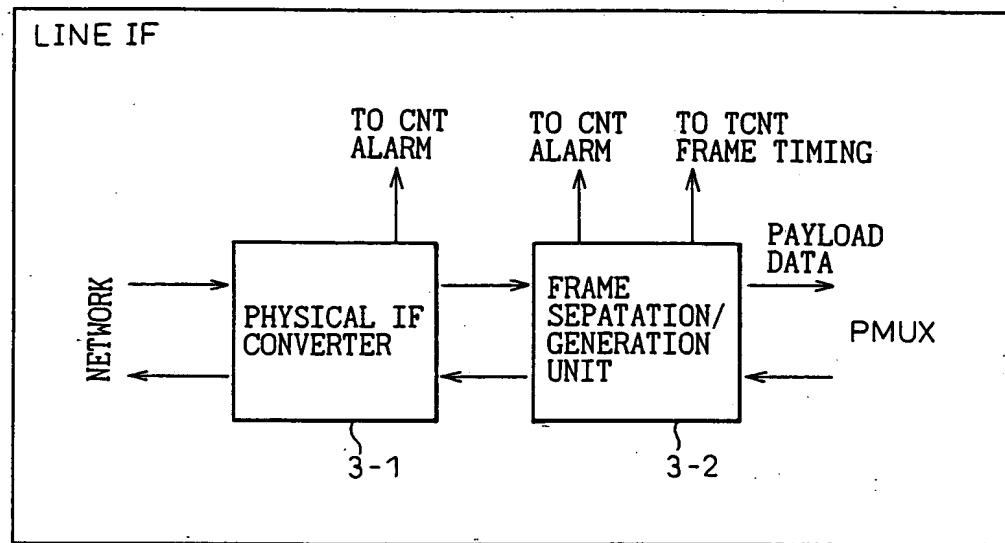


Fig.3B

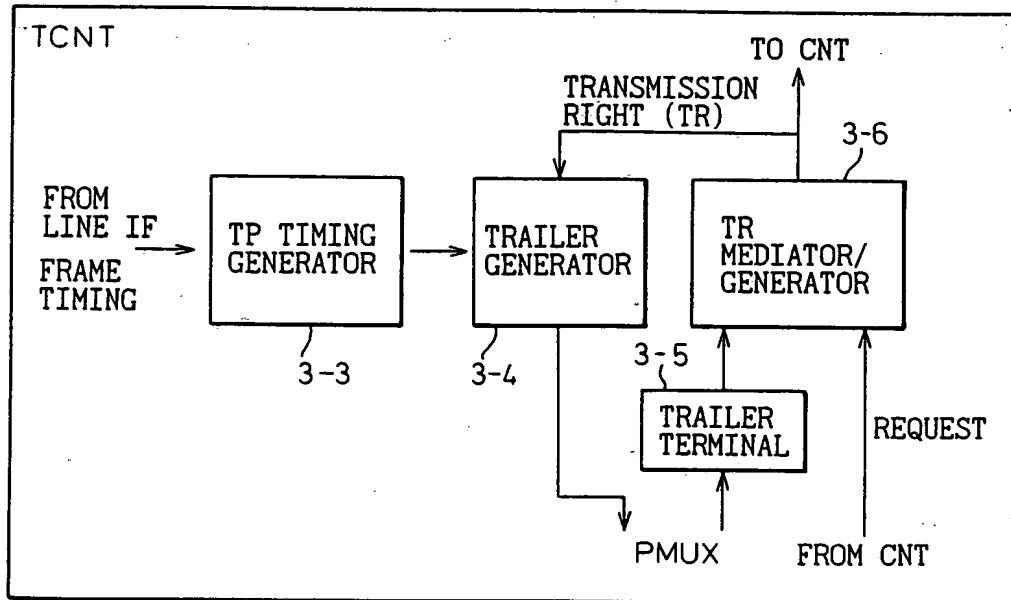
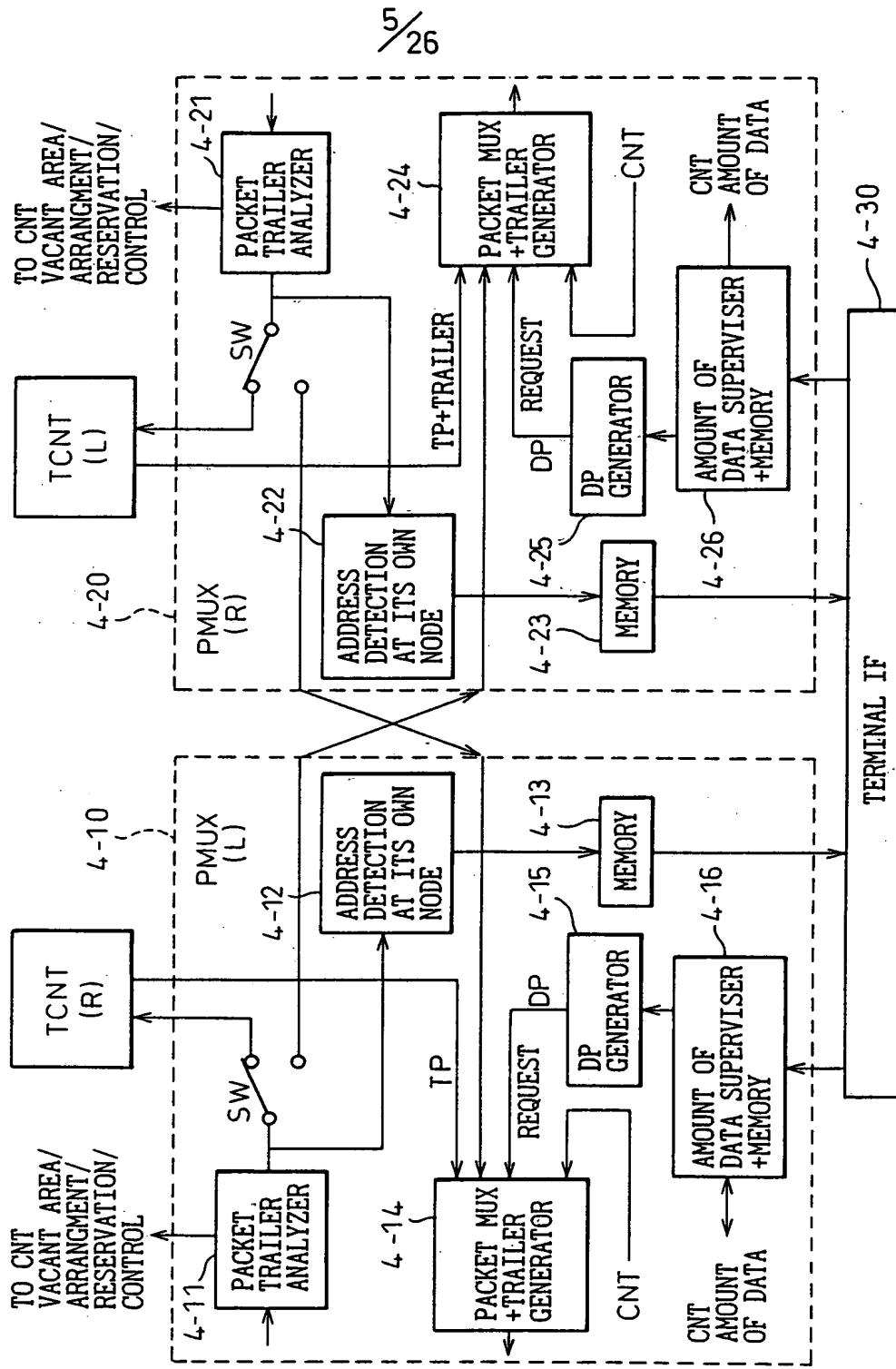


Fig. 4



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Fig.5

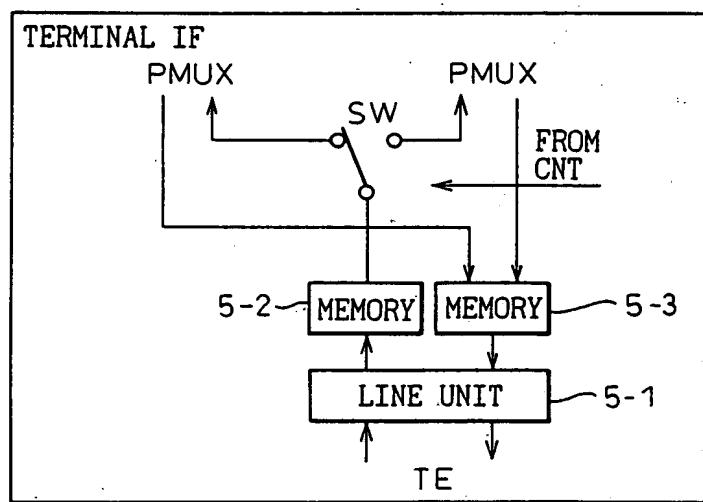


Fig. 6A

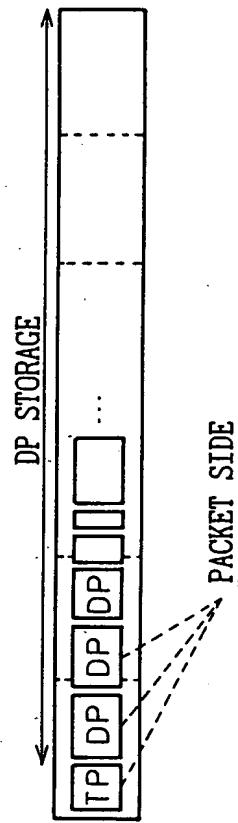


Fig. 6B

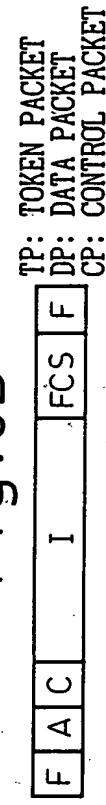


Fig. 6C

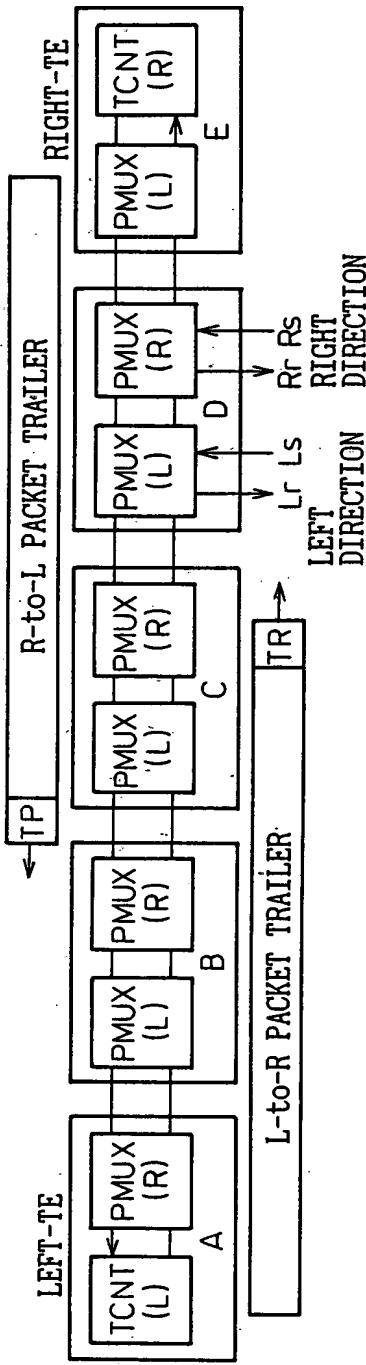
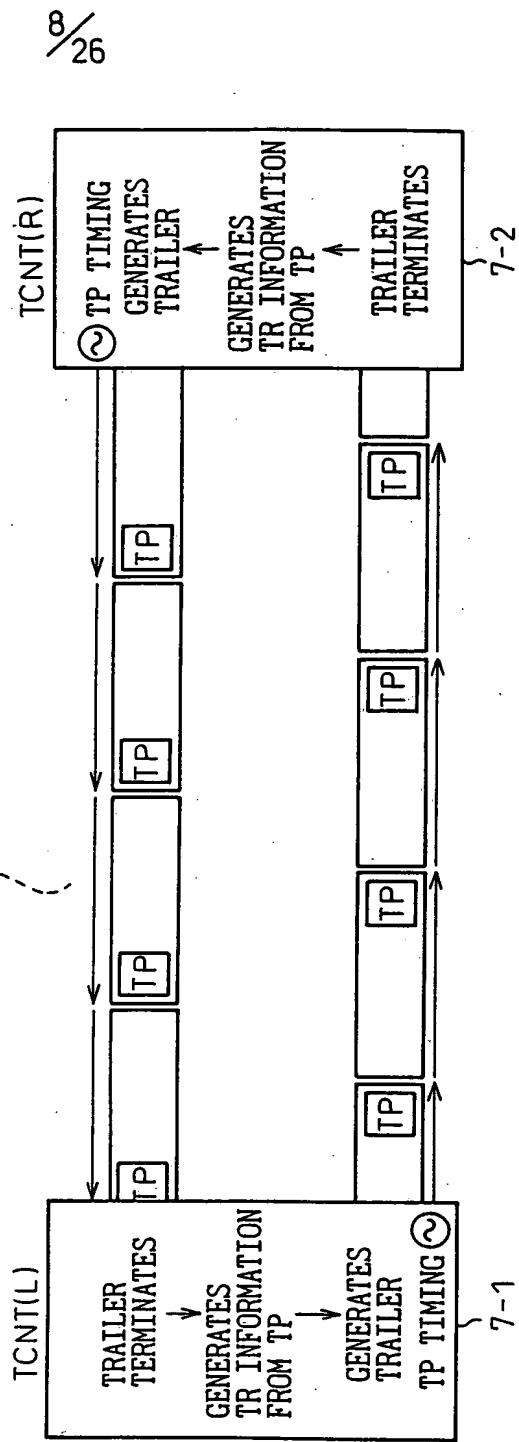


Fig. 7



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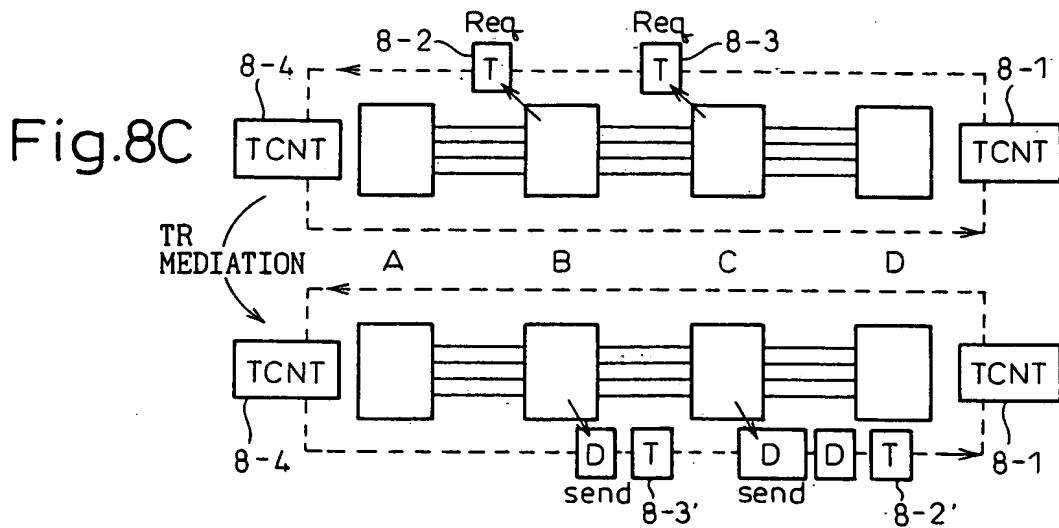
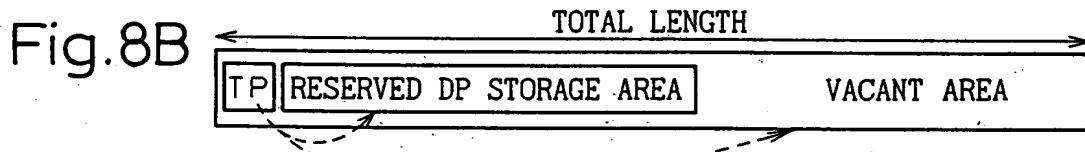
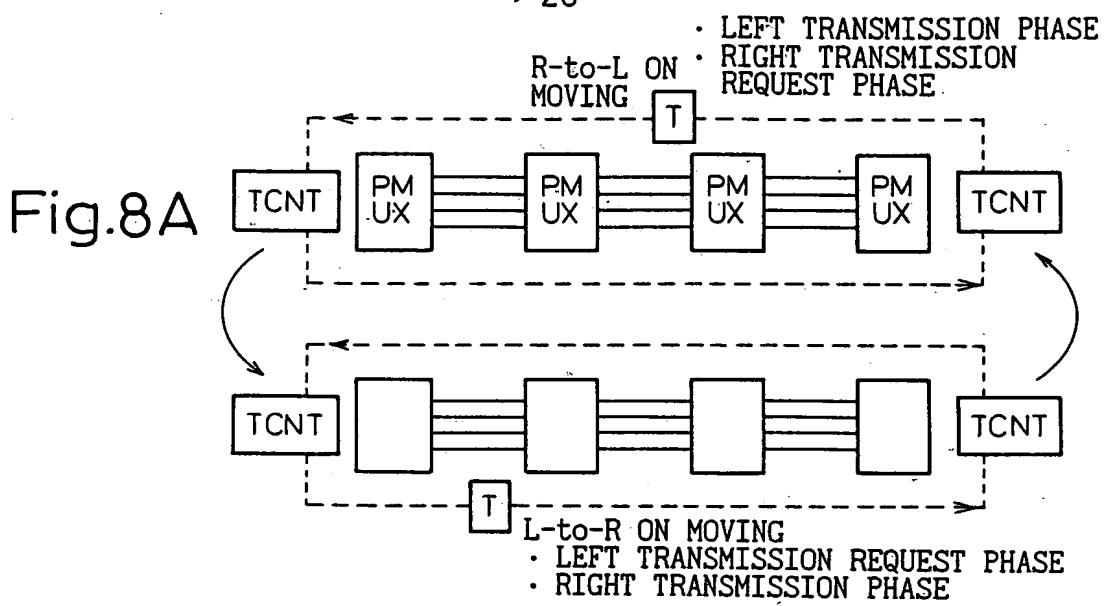


Fig. 9

STRUCTURE OF TOKEN PACKET

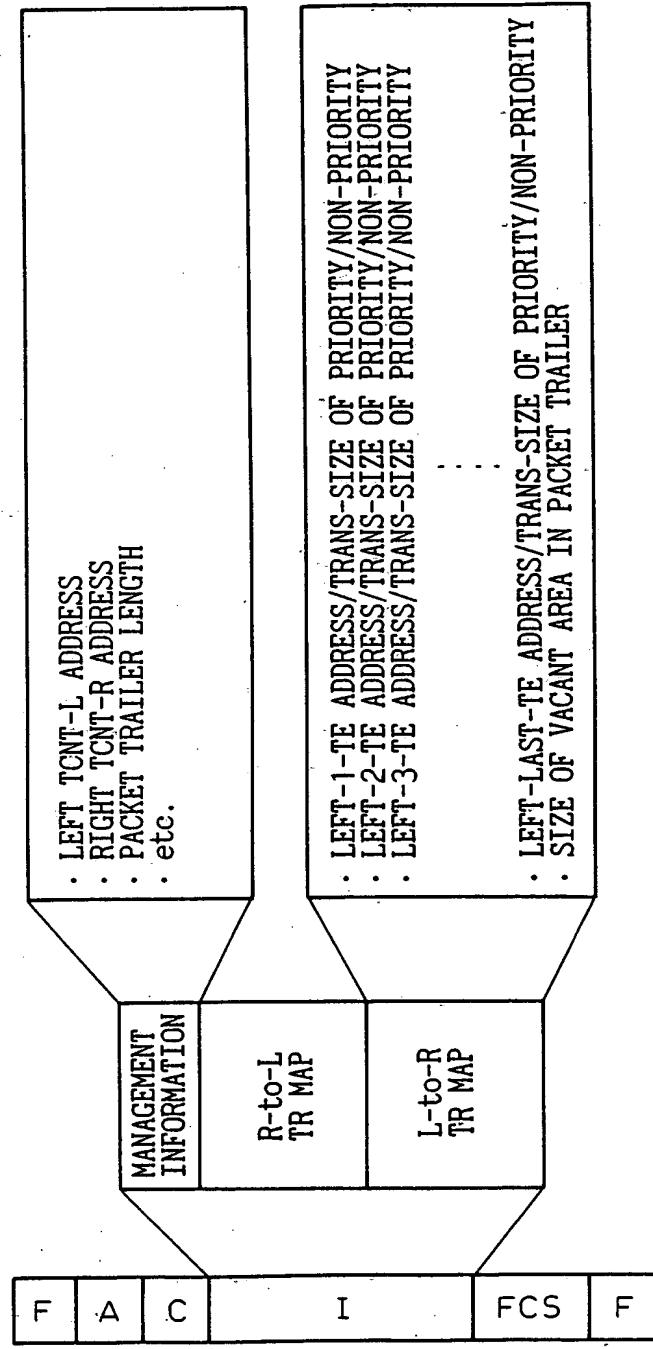
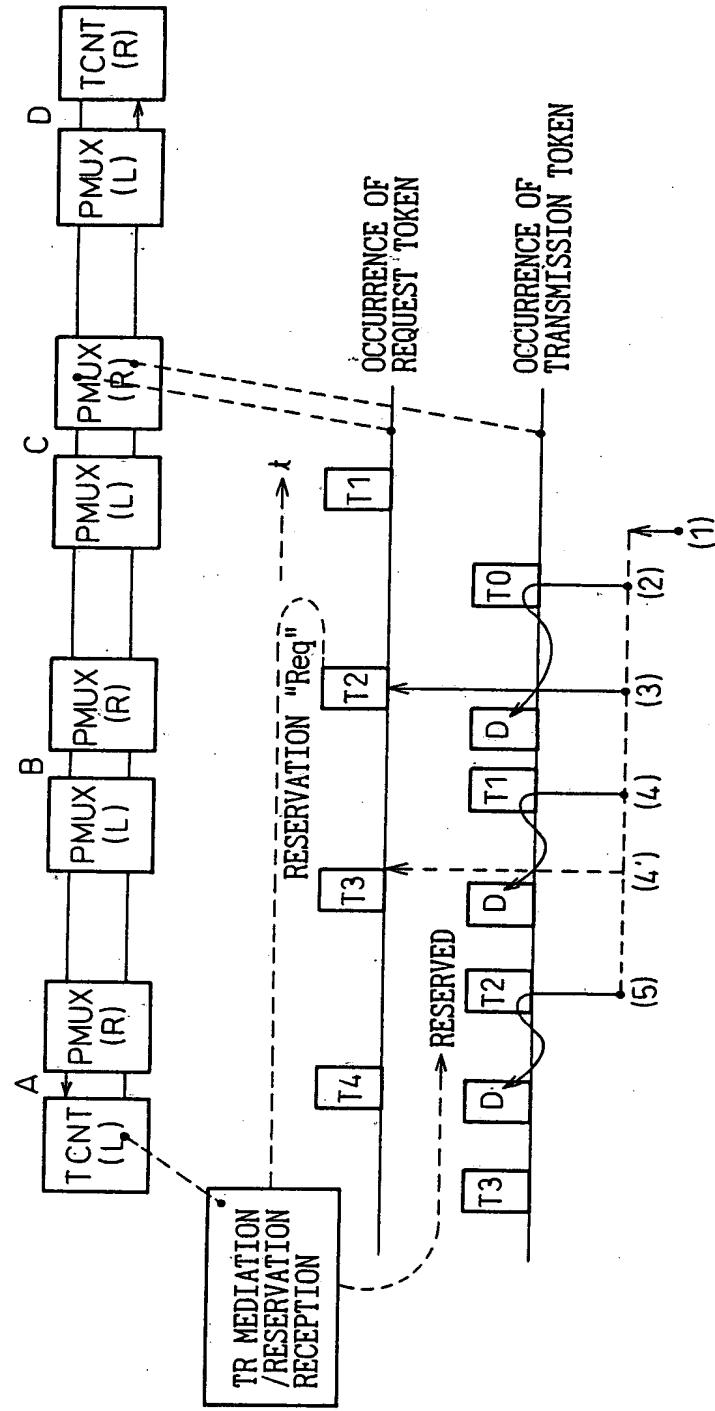


Fig.10

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Fig.11

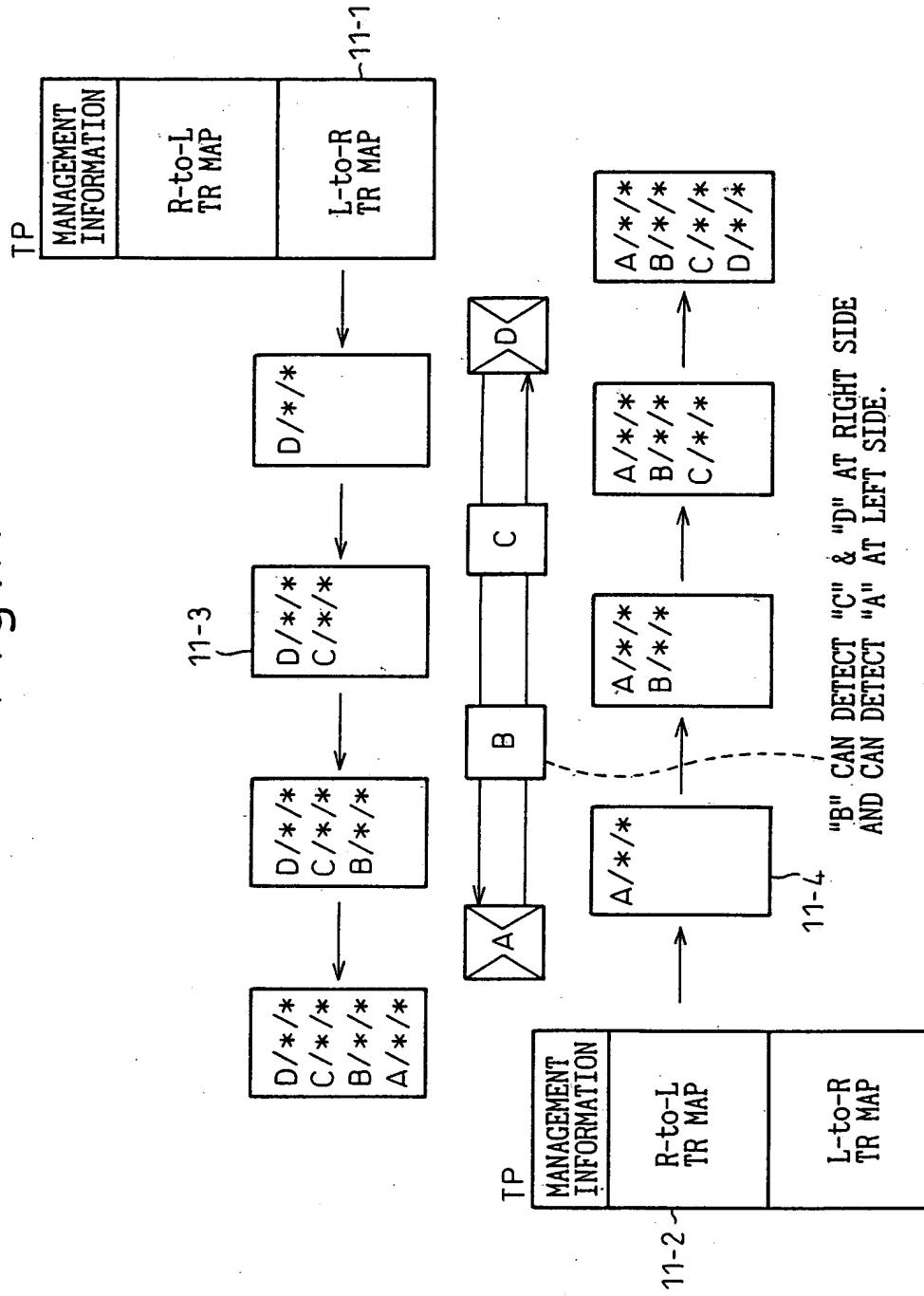


Fig. 12

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In=#0	DATA FRAME HAS NOT ARRIVED	"MASTER-INFORMING" OF MASTER NODE " $m$ " HAS ARRIVED	"MASTER-INFORMING" AND "MASTER-INVITING" OF MASTER NODE " $m$ " HAVE ARRIVED
In=#1	NODE IS CHANGED TO "MASTER" AND TRANSMITS "MASTER-INFORMING" AND "MASTER-INVITING" TO LINES (#0, #1) (RAS-r1, RAS-r4)	NODE IS CHANGED TO "MASTER" AND TRANSMITS "MASTER-INFORMING" AND "MASTER-INVITING" TO LINE (#0) (RAS-r1, RAS-r4)	NODE IS CHANGED TO "MASTER" AND TRANSMITS "MASTER-INFORMING" AND "MASTER-INVITING" TO LINE (#0) (RAS-r1, RAS-r4)
		<p>if <math>m=n</math></p> <p>address of its own node then, node is changed to master, and transmits "master-informing" (RAS-r3)</p> <p>if <math>m&gt;n</math></p> <p>address of its own node then, node is changed to slave (RAS-r3)</p> <p>if <math>m \neq n</math></p> <p>then, node is changed to slave (RAS-r2)</p>	<p>NODE IS CHANGED TO "MASTER" AND TRANSMITS "MASTER-INFORMING" AND "MASTER-INVITING" (RAS-r5, RAS-r7)</p>
	"MASTER-INFORMING" OF MASTER NODE " $n$ " HAS ARRIVED	NODE IS CHANGED TO "MASTER" AND TRANSMITS "MASTER-INFORMING" AND "MASTER-INVITING" TO LINE (#1) (RAS-r1, RAS-r4)	NODE IS CHANGED TO "MASTER" AND TRANSMITS "MASTER-INFORMING" (RAS-r5, RAS-r7)

Fig.13A

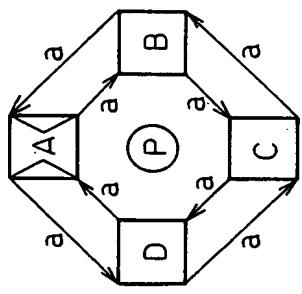
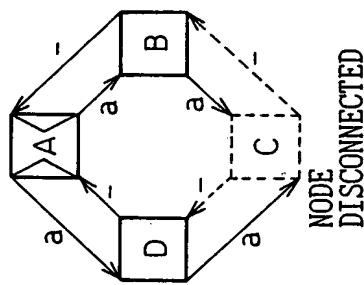
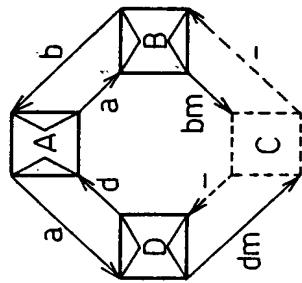


Fig.13B



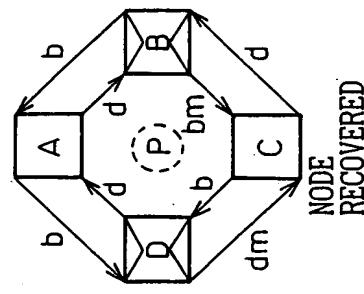
NODE  
DISCONNECTED

Fig.13C



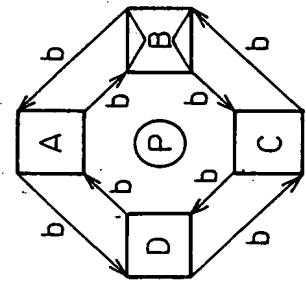
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Fig.13E

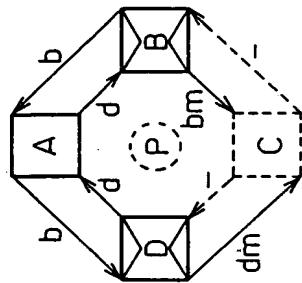


NODE  
RECOVERED

Fig.13G



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Fig.14A

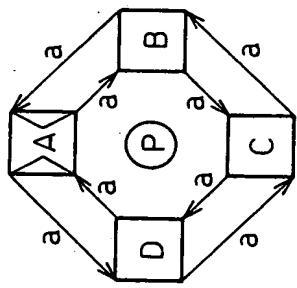


Fig.14B

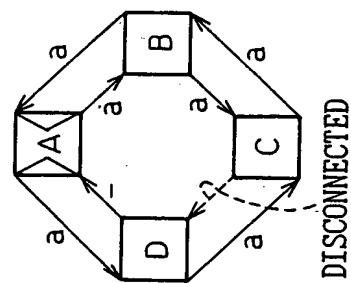


Fig.14C

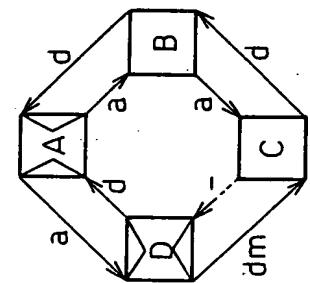


Fig.14D

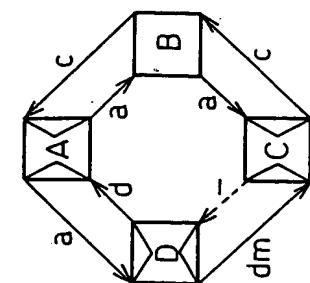


Fig.14E

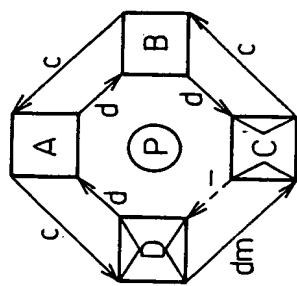


Fig.14F

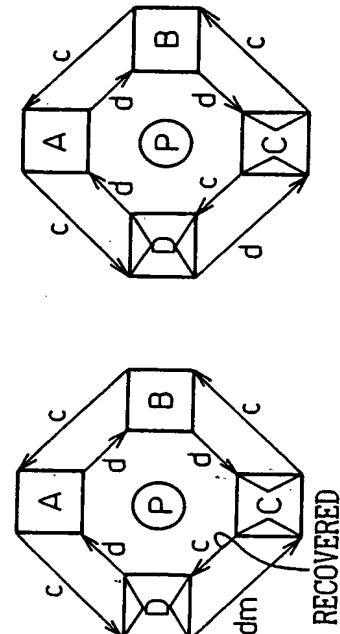
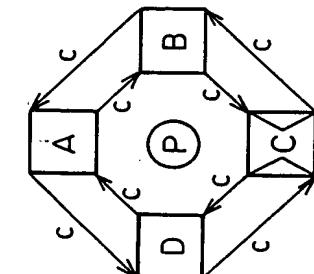


Fig.14H



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Fig.15A

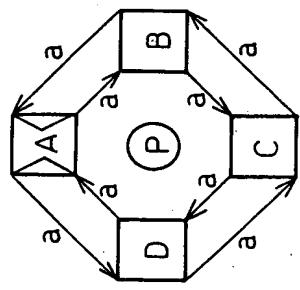


Fig.15B

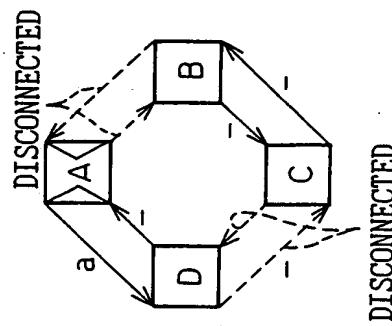


Fig.15C

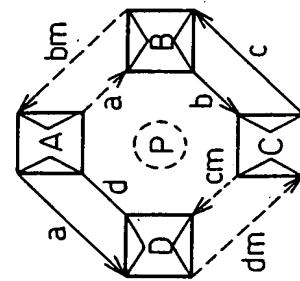
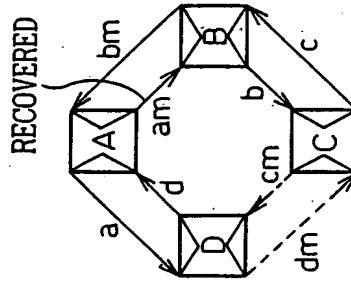
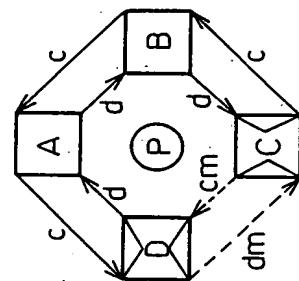


Fig.15D



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Fig.15E



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Fig.16A

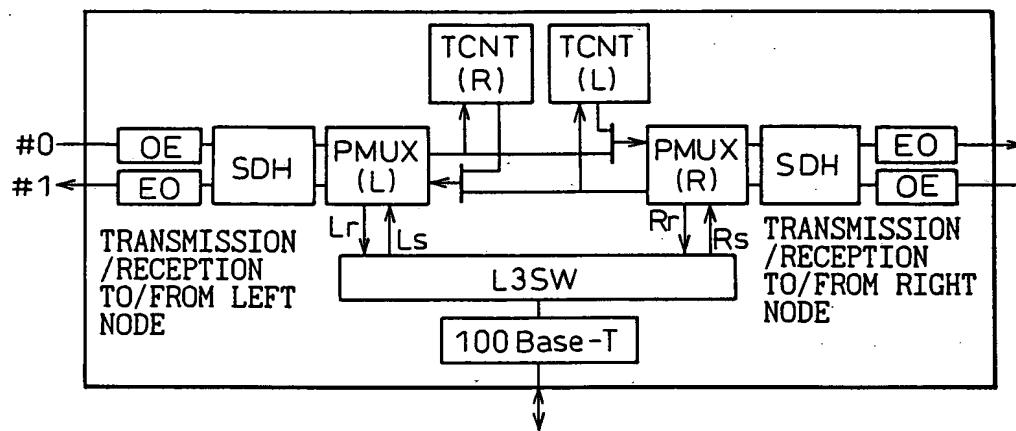
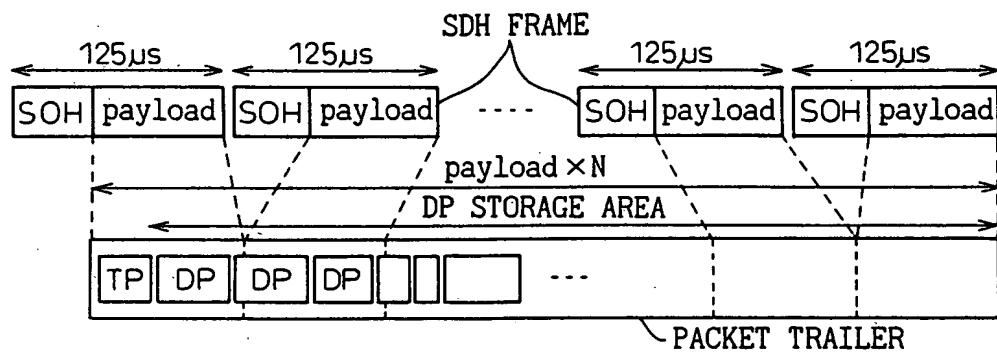


Fig.16B



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Fig.16C

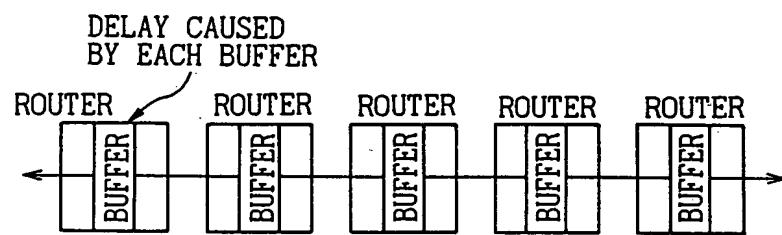


Fig.16D

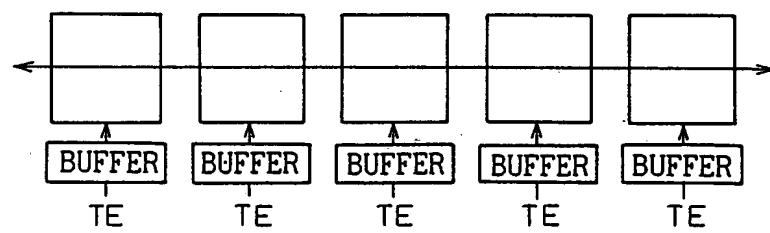


Fig.17A

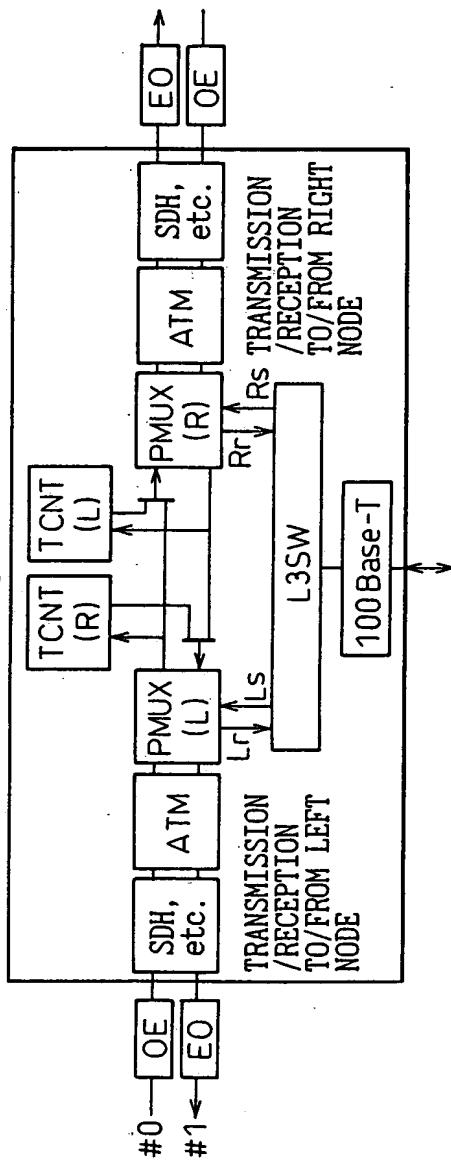


Fig.17B

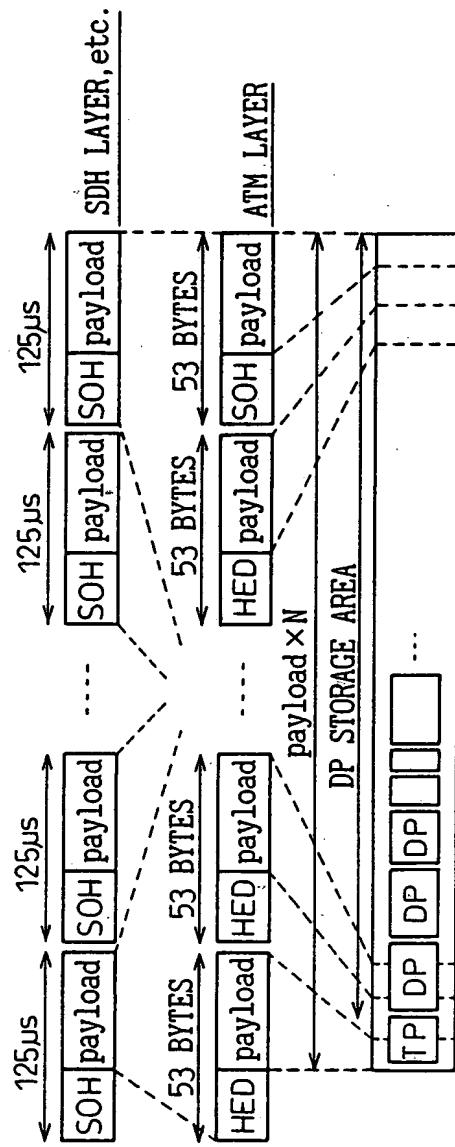


Fig. 18A

PRIOR ART  
THE SAME DATA IS DELIVERED  
ON LINES #0 AND #1 AND  
SELECTED AT RECEPTION SIDE

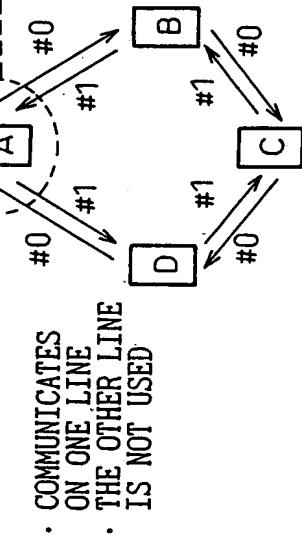


Fig. 18B

PRIOR ART

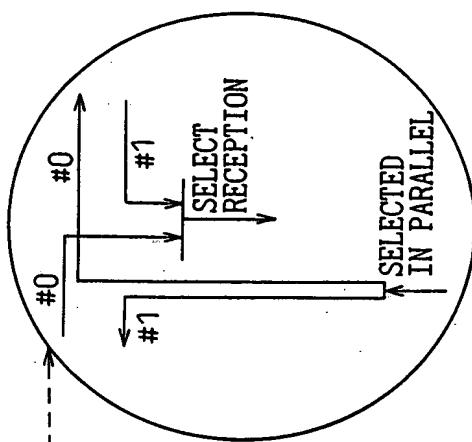
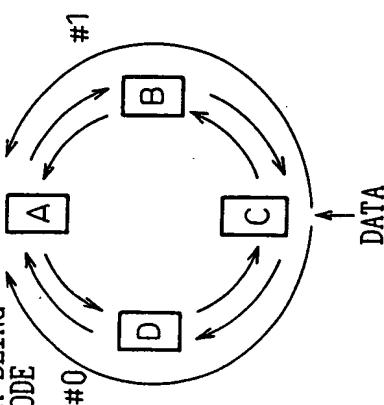


Fig. 18C

PRIOR ART

IN THE CASE OF DATA BEING  
TRANSMITTED FROM NODE  
"C" TO "A"



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Fig.19A  
PRIOR ART

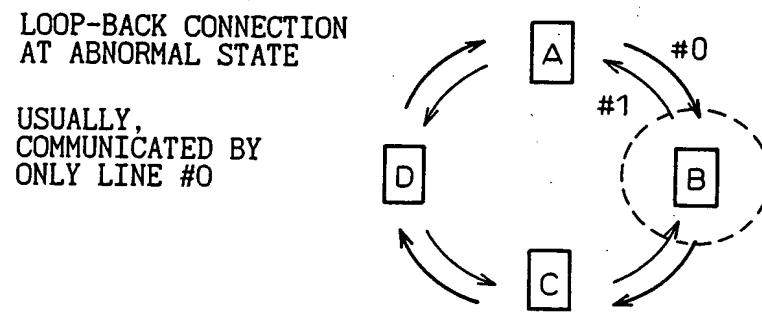


Fig.19B  
PRIOR ART

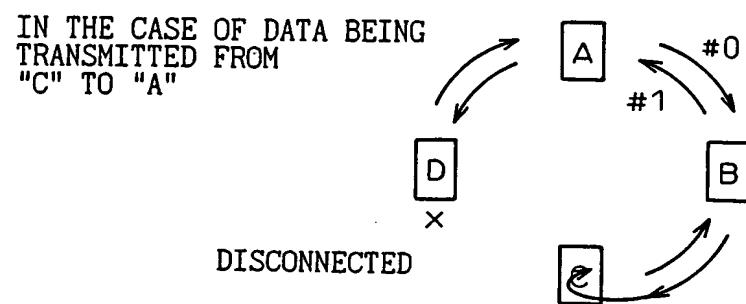


Fig. 20A  
PRIOR ART

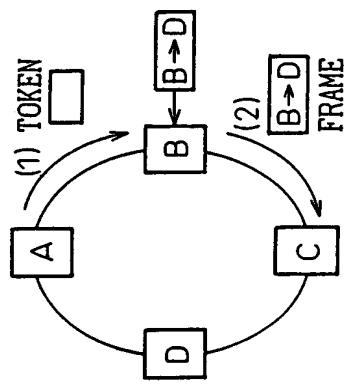
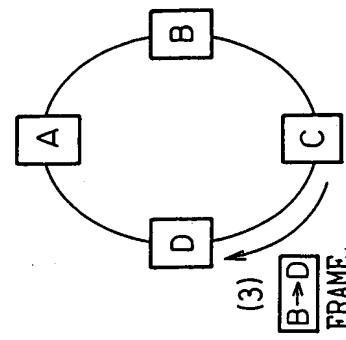


Fig. 20B  
PRIOR ART



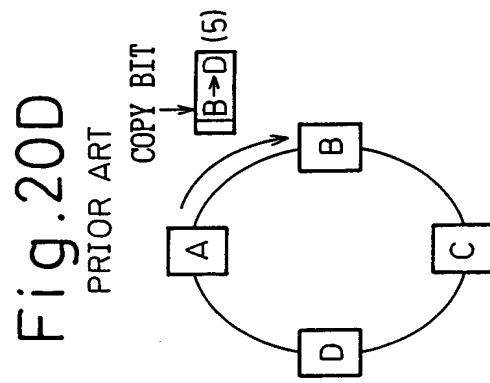
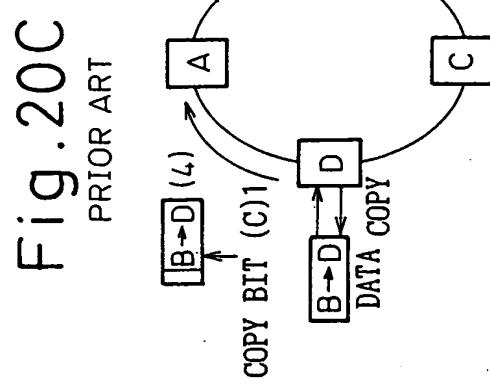
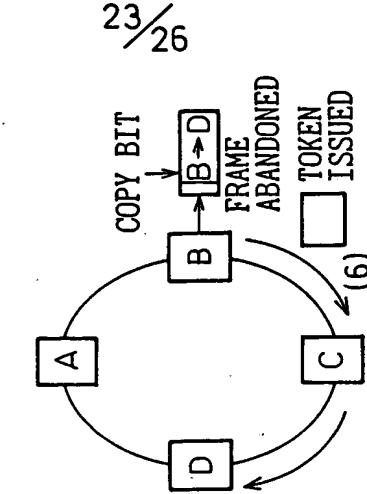


Fig. 20E  
PRIOR ART



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Fig. 21A  
PRIOR ART

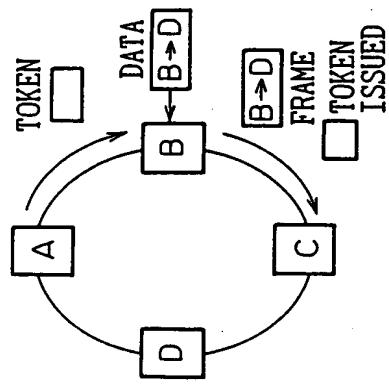


Fig. 21B  
PRIOR ART

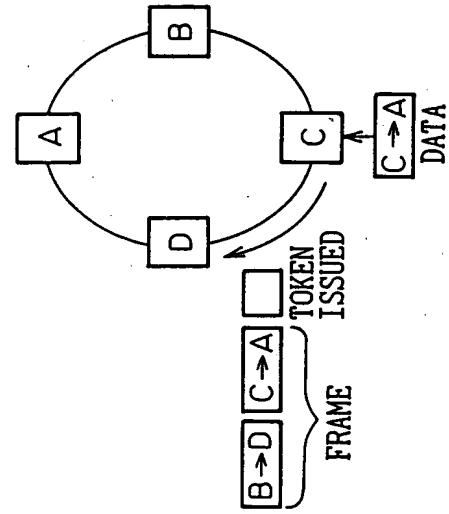


Fig. 21C

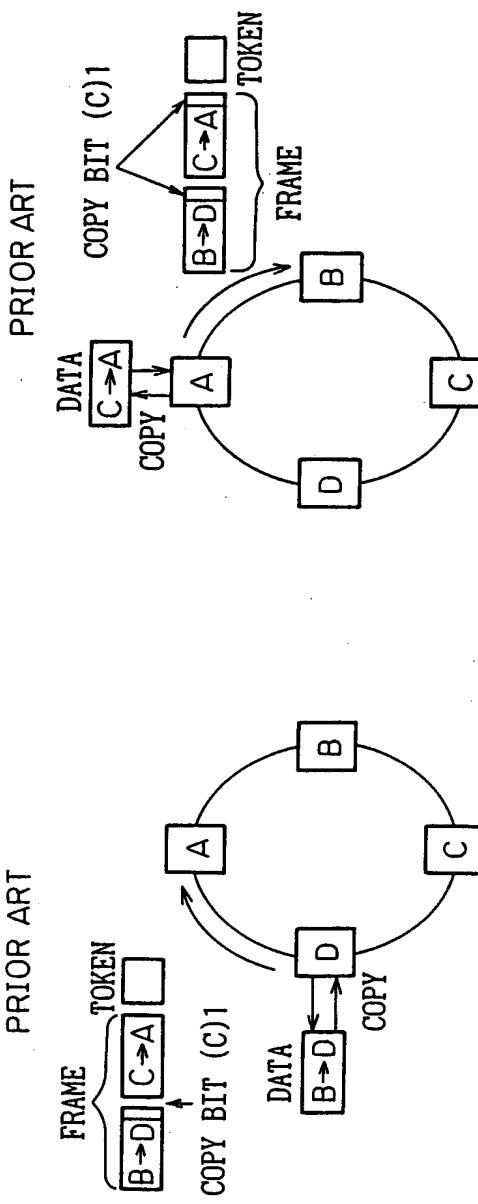
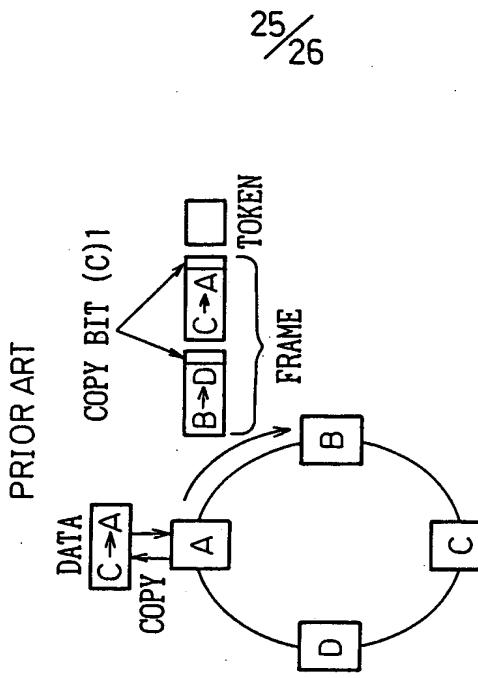


Fig. 21D



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Fig.21E  
PRIOR ART

